Subject Index

Allergy treatment 1347

Alpha synuclein 1272

Allostery 953, 1220, 1943, 3688

Alternative splicing 516, 1706, 2215 Aspirin 354, 2407 AAA ATPase 2360 Alzheimer's disease 359, 1311, Assembly 756 α-Actinin 2688 1836, 1842, 2372, 2574, 3265, Associative olfactory learning 3521 ABC transporters 2594, 3145 Asthma 359 Abiotic stress 1150 Alzheimer's pathology 2372 Astrocyte 2702 Accessory gland proteins 3241 Amidotransferases 3699 α-synuclein 80 Accumulation 3049 AMK 2001 Atherosclerosis 354 Acetylcholinesterase 1768 AMPA receptors 2913 AT Hook 1403 Acetylcholinesterase expression Amyloid-\(\beta \) peptide 2574, 3265 Atomic absorption 4019 Amyloid precursor protein 1311 **ATP7A 89** Acinar-to-ductal metaplasia 33 Amyotrophic lateral sclerosis 2119 ATP-grasp superfamily 3699 Acrosome reaction 3446 And neural plasticity 2215 ATP receptors 3074 Actin 991, 1957, 2128, 2790 Angelman syndrome 656 Atrial fibrillation 1489 Actin filament 563 Angiogenesis 669, 700, 728, 1631, Atrial remodeling 1489 Actin networks 3592 1706, 3839 Autoimmune 1161 Activation 3525 Angiotensin II 1489 Autoimmune diabetes 3851 Activation mechanism 3664 Animal embryo 212 Autoimmune disease 1347 Active site 3918 Animal models 1864, 2702 Autoimmunity 1683 Acylcarnitines 1596 Anthrax antitoxin 2675 Autophagy 2397, 3640 Acyl chain composition 2493 Anthrax vaccine 2675 Autophosphorylation 2637 Acyl-CoA thioesterase 5 982 Anti-amyloidogenic therapy 2574 Auxilin 2385 Acyl-CoA thioesterase 12 982 Antibacterial 1459 Aversive learning 3521 ADAM protease 2232 Antibody 1161 Axon 45 **ADAMTS-13713** Anticancer 1631 Adaptive immunity 1683 Antifungal protein 445 Adaptor complex 2781 Anti-inflammatory 620 **BACE1 3265** Adenosine and ribose metabolism Antimicrobial peptides 895, 1285, Bacteria 910, 1161 2450, 3081 β₂-adrenergic receptor 2277 Adenosine kinase 2875 Antioxidant 1631 BAG domain 1390 Adhesion 605, 1446, 2244 Anti-tumor 1631 BAG protein 1390 Adipogenesis 2658 AOH1 1019 Barth syndrome 2493 Adiposomes 840 AOH2 1019 β-barrel 312 Adrecorticotroph 1826 AOH3 1019 β-cell dysfunction 2256 Adrenal gland 2721 AOX1 1019 β-cells 3467 Advanced glycation end products Apaf1 1780 Bcl-2 2943, 3028 2924 Apamin 3196 Beneficial effect 3049 Aerolysin 493 AP endonuclease 1544 B-Catenin 2658 AFMK 2001 Apoptosis 45, 113, 205, 656, 814, β-galactosidase 351 Afterhyperpolarization 3196 862, 1248, 1295, 1425, 1435, 1780, **BIK 3822** Aggregate 910 1900, 1933, 2763, 3134, 3640, Bile acid 570 Aging 1049, 1626, 1669 Bile acid metabolism 2461 AIDS 2621 Appetitive learning 3521 Binding actin filaments 2688 AIF 644 Arabidopsis 743, 1150, 1390 Binding site prediction 1059 a-Klotho 3218 Archaeal CCA-adding enzyme Bioinformatics 3348, 3879 Akt 113 2613 Biology-oriented synthesis (BIOS) Alamethicin 3028 AREs 128 1186 Alcohol dehydrogenase 3918, 3936, Arf1 2781 Biomarker 1007 3950, 3961, 4019 ARF-GEF interactors 3433 Biosynthesis 455 Aldehyde oxidase 1019 ARF GTPases 3433 Biotin 840

Aromatic 1459

Aspartic protease 3265

Arousal 1475

B-lactam 2138

Blastema formation 1

Blastema 73

Blood 1237 Blood flow 669, 728 B lymphocytes 3861 Bone 395 Bone development 669 Bone morphogenetic proteins (BMPs) 41 Botulism 2296 B-oxidation 982, 2507 Brain 777, 1669 Brefeldin A 2859 Brefeldin A (BFA) 3433 Buccal mucosa 3653 **Budding 756** Butyrate sodium 1768 BYSL 92

C Ca2+ 2897 Ca²⁺/calmodulin 3507 Ca2+/calmodulin-dependent protein kinase kinase 3737 Cadherin 253 Cadmium 3640 Cajal body 1255 Calcineurin 3640 Calcium 672, 3640 Calcium-activated potassium channel 3196 Calcium homeostasis 3218 Calcium-sensing receptor 3218 Calcium signaling 205 Calcium wave 376 Calmodulin 1378, 2637 Calorie restriction 1626 **cAMP 605** Cancer 33, 92, 113, 359, 545, 591. 669, 700, 1446, 1916, 2019, 3145, 3255, 3366, 3971 Cancer progression 1706 Candida 528 Candidate gene 1086 Cannabinoid receptors 2277 Cannibalism 928 Capacitation 3446 Capping 563 Carbohydrate 3737 Carbonyl-metabolizing enzymes

Candida 528
Candidate gene 1086
Cannabinoid receptors 2277
Cannibalism 928
Capacitation 3446
Capping 563
Carbohydrate 3737
Carbohyl-metabolizing enzymes 3653
Cardiac fibroblasts 2924
Cardiolipin 2493
Cargo-binding 1378
Carnitine acetyltransferase 982
Cartilage 395
Cardidate gene 1086
Candidate gene 1086
Canadidate gene 1086
Canadidate gene 1086
Capping 5277
Capping 563
Carbohydrate 3737
Carbohydrate 3737
Carbohydrate 3737
Cardiac fibroblasts 2924
Cardiolipin 2493
Cardiolipin 2493
Cardiolipin 2493
Carnitine acetyltransferase 982
Carnitine octanoyltransferase 982
Cartilage 395

Cartilage oligomeric matrix protein 672 Cas 1446 Casein kinase 2 3290 Ca²⁺-signaling 2637 Caspase-1 493 Caspases 644, 1248, 1361, 1780 Ca²⁺ store 862 Catalytic promiscuity 3606 Catalytic zinc site 3961 Catenin 3756 Cathelicidin 3019 Cationic amino acid 2039 Cationic lipids 620 CCDC134 338 CD14 1683 CD36 713 CD47 713 CD4 Cells 3134 CDK 3255 Cdk5/p35 991 Cell adhesion 713, 2175 Cell adhesion molecules 253, 3809 Cell-cell communication 376 Cell cycle 8, 113, 605, 1768, 3255, 3458 Cell cycle re-entry 1 Cell death 177, 1780 Cell-free expression 1729 Cell growth 656 Cell junction 3756 Cell membrane binding 324 Cell migration 73, 2175 Cell penetrating peptide 3564 Cell proliferation 205, 3507 Cell survival 113 Cellular hypoxia 177 Cellular response 493 Cellular uptake 1237 Cell wall recycling 928 Central nervous system 237 Ceramide 1933 Cerebellin 1698 Cerebellum 1698 Cerebral blood vessel endothelium 3196 c-FLIP 814 **CFTR 2594** C2H2 1150 Channel 3028 Channel kinetics 2215 Chaperones 414, 2385 Checkpoint 3458 Chemical biology 1186 Chemical chaperone therapy 351

Chemokines 2702 Chemoprotection 1459 Chemotaxis 2528, 2732, 3074, 3446 Chemotherapy 3145 Chick 45 Chick embryo 3312 Cholera toxin phage 1347 Cholesterol 862, 2277 Cholesterol-dependent cytolysin Cholinergic basal forebrain 1842 Chondrocyte 687 Chondrogenesis 2658, 3494 Chondroitin sulfate E 1073 Chromatin 1403, 1509, 3329 Chromosome passenger complex 3100 Cilium 605 Cinnoline 2001 CKI 3255 Clade B 2541 Classification 2431 Clathrin 2779, 2781 Clathrin-dependent 2586 CLAVATA3 (CLV3)/ENDO-SPERM SURROUNDING REGION (ESR)-related (CLE) 743 Cleavage 3822 Cleavage and polyadenylation specificity factor 1099 Cleavage stimulation factor 1099 CNS repair 161 Coatomer 2781 Coat proteins 2781, 2842 Codon-substitution model 1285 Coenzyme A 2507 Coexistence 1793 Coilin 1256 Colicin 3028 Collagen 177, 2924 Colon cancer 1295 C-O lyase 928 **COMP 687** Complex I 2943 Complexin 2814 Compound libraries 1186 Computational model 2125 Computational modeling 3040 Conformation 1302 Conformational change 1716 Conformational isoforms 827 Connexin 376 Conservation 201

Chemical denaturant 827

Constitutively activating mutations Degradation 3822 Dynein 509 Dehydration 455 Dystrophin 2957 Contractility 3592 Dehydrogenases 3879 **COPI 2781** Deiodinases 570 **COPII 2781** Delta 2056, 2232 Copper accumulation 2080 Demyelination 2702 Copper trafficking and transloca-Dendritic cells 1683 tion 89 Dengue 3081 COP protein 2779 Dentate neurogenesis 2372 Cornification 3126 Deoxyribozyme 2156 Depression-like behaviour 1854 Coronin family 2419 Dermaseptin-related peptide 895 Corpus allatum 964 COX 1295 Desensitization 2289 CpG ODN 2091 Desquamation 2019 CpG sequences 620 Detergents 1729 Creutzfeldt-Jakob disease 631 Detoxication 141 Crk 1446 Development 33, 212, 528, 545, Crohn disease 1361 3126 Crotonase superfamily 2507 DGC 2957 Crypts 1523 Diabetes 113 Crystal packing 1059 Diacylglycerol 1948 Crystal structure 1464, 3907 Diagnosis pattern 1007 CsgA 910 Differentiation 1768 CSPa 2385 Digestion 851 C-type lectin 3019 Dihydrodiol dehydrogenase 1464 Curcumin 1631 Dimeric ADH 3907 Cyclin-dependent kinase inhibitors Dimerization 2289 Disease 1161 Cyclins 8, 3255 Disintegrin 2056 Cyclization 455 Divergent evolution 3606 Cyclooxygenase 354 Diversity-oriented synthesis Cyclopentenone prostaglandins (DOS) 1186 3507 DNA cloning 187 CYLD 1123 DNA damage 1544 Cystatin 1285 DNA enzyme 2156 Cysteine protease 2541 DNA glycosylase 1544 Cysteine-stabilized α/β-motif 187 DNA ligase 1544 Cystic fibrosis 2594 DNA methylation 1509, 3329 Cytochrome c 1272 DNA microarray 798 Cytokines 1073, 1248, 2702 DNA polymerase 1544 Cytolytic peptides 187 DNA repair 1013, 1544 Cytoskeleton 991, 2943, 3592 DNAzyme 2156 Cytotoxicity 910 Docking 2801 Dopamine 1872, 2125 D Dorsal root ganglia 1806 **DAPC 2957** Dorsal/ventral iris 41 Darier's disease 205 Drosophila 3918 3D culture 177 Drug abuse 1872 DD-peptidase 2138 Drug-carnitine interactions 1596 Deacetylase 4000 Drug metabolism 1019 Deacetylase inhibitor 3100 Drug resistance 3145

Drug treatment 1796

3-D structure 2637

Duchenne 2957

Death pathways 3145

Dedifferentiation 1, 73

Defensin 2069, 3019

DEC-205 1302

E6-AP 656 EAR motif 1150 Ebola virus 756 4E-BP1 3110 E-cadherin 3756 EGFR 1566 Egr-1 3110 Elapid 4039 Electron microscopy 1302 Elk1 338 Elongation 2280 Elongation factor 1335 Embryo 92 Endo180 1302 Endocannabinoids 840 Endocrine gland 964 Endocrinology 3664 Endocytic traffic 2779 Endocytosis 445, 1880, 2296, 2586, Endogenous 3399, 3413 Endogenous retrovirus 3327, 3348 Endomannosidase 1609 Endonuclease 1176 Endoplasmic reticulum 862 Endoribonuclease 1099 Endosome 2105, 2842, 2859 Endothelial cells 2740 Endotoxin 3231 Energy 1626 Energy production 2493 Enhancement of differentiation 3312 enJSRVs 3422 Enolate intermediates 2507 Enp1 92 Entatic state 3961, 4019 Enteric nervous system 295 Enterohepatic circulation 2461 Entry factor 100 Env 3134 Envelope glycoprotein 100 Env-receptor interactions 3383 Enzyme catalysis 1220 Enzyme evolution 3895 Enzyme inhibitor 2039 Enzyme inhibitors 2875 Enzyme structure and function Enzyme superfamily 3879 Enzymology 851

Eosinophil cationic protein 324 Epidermal growth factor receptor 1566 Epidermis 3126 Epigenetics 1013, 3329 Epilepsy 1864 Epithelial barrier 1361 Epithelial cells 970 Epitope 631 EPO 3545 EPO receptor 3545 ErbB 1566 ERK 3525, 3640 ERK1/2 814 Estrogen receptor 2752 E3 ubiquitin ligase 3458 Eukarvotic cell cytotoxicity 324 Evolution 201, 2019, 2431, 2541, 3000, 3182, 3327, 3348, 3413, **Excitatory transmission 295** Exocyst 2790 Exocytosis 2790, 2801, 2814 Exogenous retrovirus 3327 Experimental autoimmune neuritis 4055 Expression 2289 Expression systems 1729 Extracellular matrix 669, 1706 Extracellular protein structure 672 Extracellular signal-regulated kinase 3861 Extrahepatic biliary system 3467

FACS 1237 Factor VIIa 953 Factor VIIa analogue 953 Factor X activation 953 Fat signaling 64 F-box 1977 FceRI 1585 Fear conditioning 1836 Female reproductive tract 3446 Fertilization 3446 FGF23 3218 FGFR 3809 Fibrinogen 1943 Fibrocyte 24 Fibrosis 1621 Filoviruses 756 Flavodoxin-fold 141 Flavonoids 1425 Flippases 3119

Flock House virus 2675

Folding 2450
Formaldehyde 3950
FoxO 1049
Free fatty acids 2256
Free radicals 1435
Frog skin secretion 895
FSHR 3664
Function 1669
Functional amyloid 910
Functional dependence 2407
Functions 3789
Fusion 2814, 3134

G

GAK 2385 Galanin 1820, 1842, 1854, 1864 Galanin receptor 1793, 1820, 1854, Galanin receptor ligands 1796 Galectin-1 2586, 3304 Gall bladder development 3467 Gammaretrovirus 3413 Gap junctions 376 Gastric acid secretion 264 Gastroesophageal reflux disease Gastrointestinal dysfunction 940 Gating 2554 Gating modifier 2431 Gaussian Network Model 3058 Gems 1256 Gene 4039 Gene expression 1013, 1523 Gene 5 protein 631 Gene regulation 201, 545 Gene structure 1880 Gene structure and mutants 2875 Gene therapy 3830 Genetic diseases 2833 Gene topology 187 Genome-wide association study 1086 Germ cell tumor 3366 Germ line 3327 Germ stem cells 16 Gestational hyperthyroidism 2484 G_{MI}-gangliosidosis 351 Gilthead seabream 2091 Glia 777 Glial cell 3196

Glioma 814

Glucagon 1880

Glucose 3737

Glucagon receptor 1880

Glucose-trimming 1609

Glutathione 2080, 2943 Glycolysis 3981 Glycoprotein 1653, 1716 Glycoprotein hormone receptors 2484, 3664 Glycosylation 3545 Glycosyltransferases 3677 G2/M 1768 GM1 binding site 1347 G_{M1} ganglioside 2586 Goal-oriented behavior 1475 Golgi apparatus 1609, 3677 Golgi complex 2419 Golgi retention 1609 Gonadotroph 1826 Gp41 3134 G protein βγ subunits 2191 G protein-coupled receptors 1793, 1796, 2191, 2289, 3028, 4028 G proteins 1957 G protein selectivity 4028 Granule 1585 Granule cell 1698 Growth 1621 Growth inhibition 445 Growth plate 395, 687 Gryllus bimaculatus 64 GTPase 1335 Guillain-Barré syndrome 4055 Gut 940

H HAb18G/CD147 2933 **HDAC 1013** Hearing 2407 Heat shock 1756 Heat shock response 855 Heat shock transcription factor 1 Hematopoietic cells 1073 Hemichannel 376 Hemifusion 3134 Hemolysin 312 Hemostasis 669, 728 Heparanase 1706 Heparin 1073, 1706 Hepatitis C virus 100 Hepatoma cells 2933 HER2 1566 HER3 1566 HER4 1566 **HERC 2105** Hes1 3467 Heterotrimeric G-protein signal-

ing 445

HIF-1 3981 HIF signaling 1133 High-mobility-group 3000 Hippocampus 1842, 1864 Histamine 1585 Histidine decarboxylase 1585 Histone deacetylase 1425 Histones 414 HIV 1403, 2621 HIV-1 3134 H.K ATPase 264 **HLTF 591** hOCTN2 1596 Homology 2105 Hormone metabolism 570 Inhibit 338 Hormone specificity 2484 Initiation 2280 Horseshoe crab embryo 3312 Host cell interactions 756 Host reorganization parasitophorous vacuole membrane 1900 Innexin 376 hPLIC 2105 HRP-2 1403 Hsj1 2385 Insulin 113 Hsp40 2385 Hsp70 s 2385 Human 1669, 2069 Human disease 4000 Human endogenous retrovirus Integrase 1403 3366 Hu proteins 3168 Hyaluronan 395 Hyaluronan synthase 395 Hyaluronidase 395 Hydrogen exchange mass spectrometry 3058 Hydrophobic cluster analysis 2594 Hydroquinone 141 Intestine 1523 Hypocretin 1475, 1948 Hypothalamus 1826, 2721 Hypoxia 1133, 1706, 2244 IAHP 3196 Intron 1176 I-CLiP 1311 Invasion 2933 IFN-γ 3851 I kappa B Kinase 3564 Ikaros 3290 IL-4 3851 IL-10 3851 IL-17 3851 IQ motif 1378 IL-27 3851 Imidazoline 1248 Immunity 3231, 3241 Itch 3126

Immunological synapse 2621

Immunotolerance induction 1347

Impact of age 1621 Inclusion body 80 Indoleamine 2001 Inducible nitric oxide synthase Inflamm-aging 1049 Inflammation 1049, 1361, 1489, 1631, 1813, 1820, 2528, 2979 Inflammatory bowel disease 3019 Inflammatory mediators 970 Inflammatory toxicity 3231 Influenza virus 282 ING tumor suppressors 1013 Inherited disorders 669 Innate immune system 2091 Innate immunity 1285, 1361, 1683, 1820, 2732, 2979 Insects 2069, 3521 Insertional mutagenesis 3327 Insulin-degrading enzyme 2574 Insulin responsiveness 3725 Insulin-secreting cell 1248 Insulin secretion 2256 Integration 1403 Integrins 253, 1916, 2175, 2244 Interaction 2752, 3789 Intercalated cells 3093 Interferon 2613, 3494 Interleukin-1 2964 Interleukin-8 970 Intermediate filament 2957 Intracellular signaling 3809 Intracellular toxin traffic 1347 Intralocus conflict 3241 Intramembrane 1311 Intrinsic activity 953 Inverse agonism 3664 in vitro selection 2156 in vivo therapeutic agents 2156 Ion channels 2215, 2554 Ionic interactions 827 Ischemic injury 728 Isoprenoids 1459

J JNK 3525 JNK/AP1/ATF2 1435 J proteins 2385 JSRV 3422 Jurkat 3861

K
K⁺ channel blocker 187
Kinase 3255
Kinesin 509
Kinetics 3918
Kinetic stability 827
Kinetochore 3100
Koala 3413
Krabbe's disease 3830
Kunitz-like inhibitors 4039
Kuzbanian 2232

Lactotroph 1826 Large ARF guanine nucleotide exchange factors (ARF-GEFs) 3433 Lateral transfer 3348 Learning and memory 1836 Lectin 3312 LEDGF/p75 1403 Legs 64 Lens 54 Lentivirus 1403 Leucine-rich repeat 2307 Leukocytes 1237 Lewy body 80 LHCGR 3664 LHR 3664 Lifespan 1933 Ligand 2056 Ligand binding 1880 Light-harvesting complexes 3619 Limb 54 Limb morphogenesis 395 Limb regeneration 73 Linkage 3688 Lipase 851 Lipid accumulation 840 Lipid binding domain 2277 Lipid membranes 2450 Lipid raft 1311 Lipids 851, 3737 Lipid storage 840 Lipofuscin 1669 Lipoxin 354 Liquefaction 2019

Live cell imaging 1948

Liver development 3467 Liver regeneration 940 LKB1 3737 Localization 2541 Longevity 1626, 2721, 4000 Long-term depression 2913 Long-term potentiation 3196 LPA 2740 LPS-binding and disruption 1202 LTR retrotransposon 3329 LU-protein 3481 Lv6 3481 Lymphangiogenesis 2740 Lymphatic endothelium 2244 Lymphatic markers 2740 Lymphocytes 3507

M

Macrophage 2175, 3290 Malaria 3081 Mammalian artificial chromosome Mammalian sex determination 3182 Mannose receptor 1302 MAPK 1248 MAPK pathway 338 Marburg virus 756 Mass spectrometry 3040 Mast cell 1585 Master switch genes 33 Matricellular proteins 713 Matrix metalloproteinases 1489 MBD 1509 MD-2 3231 MDCK-C7 3093

MDCK-C11 3093 MDL 72527 1425 Mechanism 414, 855 MED 687 Meizothrombin 3688 Melanin-concentrating hormone 1475 Melanoma 2763, 3366 Melatonin-binding site 2001 Melittin 3028 Membrane 1957

Membrane binding 2419 Membrane-damaging property 895 Membrane fluidity 862

Membrane-active peptide 895

Membrane fusion 1653, 1716, 2779 Membrane phospholipids 1202 Membrane proteins 312, 1729 Membrane traffic 3433 Membrane trafficking 2833

Memory 128 Menkes disease 89

Meristem 743 Mesangial cells 477

Metabolic interaction 3950

Metabolite transport 982 Metabotropic glutamate receptors 2913

Metal 3040

Metalloenzymes 2039, 3961

Metallomics 3040

Metalloprotease 2056, 2296, 2574

Metalloproteins 3040 Metalloproteomics 3040

Metaplasia 1, 33 Metastasis 1706, 2933

Methionine adenosyltransferase 2080

Methionine metabolism 2080 5-Methoxytryptamine 2001

Methyl-CpG binding proteins 1509

Microglia 3074

MicroRNA 545 Microtubules 509, 2790

Mitochondria 777, 1272, 1425, 2763, 2943, 3640

Mitochondrial apoptosis 2493 Mitochondrial calcium 1272

Mitochondrial nitric oxide syn-

thase 1272

Mitogen-activated protein kinase 2924, 3525

Mitotic centromere-associated kinesin 3100

MNNG 644

Mode of action 455

Mode of antifungal action 2069

Molecular chaperones 855, 862 Molecular diversity 2431

Molecular mimicry 1161 Molecular modeling 1464

Molecular models 2307 Molecular motors 509

Molecular sequence data 2307

Molecular signaling 1900 Molybdo-flavoenzyme 1019

Monensin 3677

Monophosphoryl lipid A 3231

Morphogenesis

Morphogenesis 3756 Morris water maze 1836

Motifs 2842 Motility 3446 Motor protein 1378

Mouse development 3329

Mouse ES cells 3312

Mouse model 687

Mrj 2385 MRL 24

mRNA stability 128, 3168

mTOR 3981

Multicellularity 3000

Multiple epiphyseal dysplasia 687

Multiple sclerosis 2702 Multivalent display 2675

Munc13 2814

Murein autolysis 928

Murine ERV classification 3383

MurNAc-6P etherase 928

Muscle 54, 2119, 2953

Muscle regeneration 3725

Muscular dystrophy 1621, 2119,

Mutation 89

MYC 3981

Myelin 161, 777

Myofibre necrosis 1621

Myosin 509, 2779, 2790

Myosin I 2128

Myosin V 1378

Myostatin 2119

Myotoxins 2897

MYST family HATs 1013

N

Na⁺-ATPase 3093 Na⁺ binding 3688

NADH 3907

Na+,K+-ATPase 3093, 3218

Nasopharyngeal carcinoma 1007

Natural killer cells 1683

Natural products 1459

N-Cadherin 3809

NCAM 3809

NCC 2091

NCC 2091

Necl-5 253

Nectin 253

Nef 2621

nELAV proteins 128

Neoblasts 16

Neoblast sub-populations 16

Neoplasia 33

Neprilysin 2574

None in 191

Nerve injury 1813

Neural progenitor 2372

Neural stem cell 45, 2372

Neurite outgrowth 3809

Neuritogenesis 1806

Neuroblastoma cell 631 O-glycosylation 528 Paxillin 1446 Neurodegeneration 237, 3265 Olfactory ensheathing cells 2732 PDGF 253 Neurodevelopment 1780 Oligoadenylate synthetase 2613 Pdp1 gene 964 Neurogenetic disease 351 Oligodeoxynucleotides 1237 Pdx1 3467 Neuroinflammation 2702 Oligomerization 2450 Penicillin-binding protein 2138 Neurokinin A 295 Oncogenes 591, 3981 Penicillium chrysogenum 445 Neurological 1161 Opioids 1813 Peptic ulcer 264 Neuromelanin 1669 Oral cholera vaccine 1347 Peptide transduction 3564 Neuronal differentiation 128 Orexin 1948 Peptidoglycan 2138 Neuronal plasticity 128 Organelle fragmentation 1933 Peptidoglycan dissimilation 928 Neuronal survival 1806 Origin 2280 Peptidomimetics 2450 Neuropathic pain 1813 Osteogenesis 2658, 3494 Period gene 964 Neuropeptides 295, 1796 Outer hair cell electromotility 2407 Perivitelline fluid 3312 Neuroprotection 777, 1806 Ovarian hyperstimulation syn-Peroxisomes 982 Neurosteroids 777 drome 2484 PfkB family of proteins 2875 Neurotoxins 2897 Overview 414 pH 2554 Neurotransmission 2296 Ov-serpin 2541 Phagocyte 2554 Neurotransmitter 1793 Oxidative stress 445, 1272, 1489 Phagocytosis 1957, 3074 Neutrophils 2175, 2528 Oxidoreductases 1464, 3895 Pharmacology 264 Newt 41 Oxyanion hole 2507 PHD finger 1013 NF-кВ 354, 1049, 1123, 1295, 1361, Oxygen homeostasis 1133 Pheromone 3521 2964, 3564 Oxygen monitoring 177 Phosphate dependency 2875 Ngn3 3467 Oxysterol-binding protein 228 Phosphate homeostasis 3218 Nisin 455 Phosphatidylcholine 1948 Nitric oxide 354, 728, 1272, 2001, p Phosphatidylserine 3861 3290 P21 3839, 3971 Phosphoinositide kinases and N-linked oligosaccharides 1609 P27 3507, 3839 phosphatases 2833 Nm23B 2105 Phosphoinositides 1948, 2779, 2833 P38 3525 Nociception 1806 P53 656, 2763, 3839, 3971, 3981 Phospholipase A, receptor 1302 N-octyl-4-epi-β-valienamine 351 P63 3126 Phospholipase C 1948 Nonspecific interaction 1059 P97 2397 Phospholipase D 1948 Non-thyroidal illness syndrome P202 3494 Phospholipid flipping 3119 Pacemaking neuron 3196 Phospholipids 228, 620, 2493 Nonvesicular transport 228 PAI-1 591 Phospholipid scrambling 3861 Noradrenaline 1854 Pain 3074 Phosphoprotein P 282 Norepinephrine 1872 Palindromic symmetry 2953 Phosphorylation 2215, 2419, 2752, Pancreas development 3467 Notch 2056, 2232 Notochord 54 Phosphoryl bond cleavage 1176 Pancreatic cancer 3110 NSAIDs 1295 Pancreatic insufficiency 851 Phosphotransferase 2637 Nuclear export 2334 Pancreatic islets 2256 Photoperiodism 964 Nuclear factor of activated T cells 3 Paneth cell 3019 Photosynthesis 3619 Pannexin 376 Photosystem 3619 Nuclear receptors 1523 PAR1 1943 P38/Hsp27 991 Nuclear serpin 2541 Paramyxovirus 1716 Phylogeny 1285 Nucleocapsid 282 Parathyroid hormone 3218 Physiopathology 1133 Nucleoprotein N 282 **PARG 644** Phytochemistry 2979 Nucleosome 3553 Parkinson's disease 1272, 1669 PI3K 3110 Nucleosome assembly 414 Parkinson's disease 80 PI3K/Akt 3507 Nucleosome disassembly 414 PARP-1 644 Pin1 359 Nucleus 1756 PARP-2 644 Pineal gland 2001

Pathogenesis 359, 2621, 3134

Pattern recognition receptors 1683

Pathogens 1957

P₄-ATPases 3119

P_{5A}-ATPases 3119

Pituitary 1826

Planarians 16

Placenta 92, 3422

PLA₂ 2897

Plant 2069

0

Obesity 570, 1086 Odorant 2289

NXXE motif 2875

Plasma membrane hyperpolarization 445 Plasmodium 3081 Plastic compression 177 Plasticin 895 Plasticity 161, 237, 1842 Platelets 713, 728, 940, 3861 Pmt proteins 528 Pointed end 563 Poly adenosine polymerase 2613 Polyadenylation 3168 Poly(ADP-ribose) (PAR) 644 Polyamine 1425 Poly(A) polymerase 1099 Polycystic kidney disease 605 Polymorphism 910, 1086, 2721 Polypeptide ligand 743 Polyphenols 1425 Polypyrimidine tract binding protein 516 Polyubiquitination 2397 **POMT 528** Porcine 3399 Pore 3028 Pore-blocking 2431 Pore-forming toxins 312, 493 Positional information 64, 73 Positional information memory 1 Positive-strand RNA virus 2675 Post-transcriptional gene regulation 798 Posttranslational modification 359. 1729 Power law 3592 Pre-Golgi compartments 2859 Prenyltransferase 1459 Pre-ribosomal particle 2334 Pre-rRNA processing 2334 Presenilin 1311 Presequence peptidase 2574 Pressure 1446 Prestin 2407 Prestress 3592 Primary afferent neuron 295 Primase 2280 Primate lentiviruses 2621 Primer 2280 Prion disease 631 Prion protein 631 Processivity 1378 Progesterone 3839 Programmed cell death 445, 1390 Proliferating cell nuclear antigen 3789

Proliferation 605, 814

Proliferative senescence 8 Promoter methylation 591 Prostate 2019 Protease-activated receptors 970 Proteases 1073, 1311, 2019, 2507 Proteasome 141, 1295, 2397, 3255 Proteasome activator 3971 Proteasome activity 3507 Protein 910 Protein aggregation 324 Protein-binding region 1059 Protein C 1943 Protein complex 1099 Protein conformation 2307 Protein degradation 1977, 2360 Protein engineering 455, 2307 Protein evolution 3699 Protein expression 1880 Protein family 3895 Protein folding 862, 3619 Protein interface description 1059 Protein kinase 2637 Protein kinase B 113 Protein-lipid interactions 3028 Protein motion 312 Protein oligomerisation 3619 Protein O-mannosyltransferase 528 Protein phosphatase 3737 Protein-protein docking 1059 Protein-protein interactions 1059, 2191, 2307, 3619 Protein S-nitrosation 3950 Protein structure 2039, 2307, 2953, 3619, 3918 Protein synthesis 1335 Protein unfolding 827 Proteolysis 1311, 1880, 2056, 2232, 3619 Proteolytic activity 237 Proteomics 1007, 3789 Proton channel 2554 Proton pump inhibitors 264 PSACH 687 Pseudoachondroplasia 687 Pseudogene 1019 PT-barrel 1459 PTHrP 3494 Purine biosynthesis 3699 Puringeric receptors 2528 Purkinje cell 1698 PurM superfamily 3699 PWWP domain 1403 4-(2-Pyridylazo)resorcinol 4019

Quality control 2334 Quiescence 8 Quinone metabolism 3653 R Rab1 2859 Rab3 2801 Rab27 2801 Rab effector 2801 Rab GTPase 2779 Rabies virus 282 Rabphilin 2801 Rac1 1446 Raft-dependent 2586 Rafts 2859 Ras 477 **RBD 516 RBPs 3168** Rdj2 2385 Reaction mechanism 3895, 3918 Reactive oxygen species 141, 2763 Receptor 1653 Receptor dimerization 2277 Receptor knockout mice 1836 Receptor-like kinase 743 Receptors 1957 Receptor transporting protein 2289 Receptor tyrosine kinase 1566 Recombinant scorpine 3081 Redox cycling 141 Reductases 3879 Redundancy 3000 REGy 3971 Regeneration 24, 41, 45, 54, 64, 161 Regio-selective 1459 Regulation 2688 Regulatory T cells 4055 Reinforcement 1872 Release factor 1335 Remyelination 2702 Renal fibroblasts 477 Renal fibrosis 477, 3304 Repair pathways 3145 Repetitive sequences 2307 Replication 1013, 2280 Reproductive proteins 3241 Restriction factors 3422 Retinoic acid 3936 Retinoid metabolism 3936 Retinol 3936 Retinol dehydrogenase 3936 Retroelements 3327 Retroviral receptors 3383

Retroviral silencing 3329

Retrovirus 3399, 3413, 3422 Sequence analysis 187 Review 2979 Sequence recognition 3348 Reward 2125 SERCA 205 Rhabdovirus 1716 Serglycin 1073 RHBDD1 3822 Serine proteases 237, 1220 Rhomboid 1311 Serotonin 940, 1854 Ribokinase 2875 Serpin 2541 Ribonuclease 324 Serum effects 3653 Ribosome 92 SH2 domain 3058 Ribosome structure 1335 SH3 domain 2953, 3058 Rme-8 2385 Short-chain dehydrogenases/re-RNA-binding protein 798 ductases 3895 RNA cleavage 2156 Short-chain dehydrogenases/re-RNA interference (RNAi) 16, 644, ductases 3918 3329 Signaling 743, 1123, 1957, 2056, **RNA** ligation 2156 3756 RNA metabolism 2613 Signaling pathways 2125, 3981 RNA polymerase 2280 Signal pathways 2933 RNA polymerase II 1099 Signal transduction 1880, 2175, RNA-protein complex 516 2191, 2964, 2979, 3255, 3564, RNA-protein interaction 1176 3664 RNA-protein recognition 516 Silicon 3049 RNA recognition motifs 516 Sirtuin 4000 RNA replication 2675 Sirtuins 1049 RNA silencing suppressor 2675 SIS domain 928 Rossmann fold 3895 Site-directed mutagenesis 1464 SIV 2621 Skeletal development 395 Saccharomyces 528 Skeletal muscle 2957, 3725 S-adenosylhomocysteine hydro-Skin 24, 1820, 2019, 3126 lase 2080 Smad3 3304 Salicylate 2407 Small GTPases 2781 Sar1 2781 SMARCA3 591 Sarcopenia 2119 SMN 1256 Satellite cells 54 SM protein 2814 Sav1866 2594 Snake venoms 2897 SBE 3304 SNARE 2296, 2779, 2790 Scarring 24 SNAREs 2781 SCF 1977 S-nitrosoglutathione 3950 Scorpion toxin 187 snoRNP 2334 Scott syndrome 3861 SOCE 205 Secondary carnitine deficiency Social transmission of food prefer-1596 ence 1836 Secondary injury 45 SOD1 991 Secretase 1311 Soft glass rheology 3592

Somatic stem cells 16

Sonic hedgehog pathway 570

Somatotroph 1826

Sorting signal 3677

Species-specificity 3000

Specific genome recognition 2675

Sorting 2842

Speciation 201

Sox 3000

S2P 1311

Secretion 1073, 2541, 3545

Secretory protein 338

Secretory vesicle 2801

Selenocystine 2763

Semiquinone 141

Selenium 2763

Semen 2019

Sensory 2289

Secretory pathway 2779, 2859

Selfish genetic elements 3241

Sperm 3446 Sphingolipids 3725 Sphingosine 1-phosphate 3725 Spinal cord 45, 54, 777, 1813 Spinal cord injury 161 Splicing 1176, 3168 Splicing regulation 516 26S proteasome 1977 Src 2419 SRC-3 3971 Src-family kinases 2175, 3058 Sry 3000 SRY 3182 Stable transfection 1596 Stem cell differentiation 2372 Stem cell graft 2372 Stem cell renewal 2372 Stem cells 1, 24, 1523, 2658, 3830 Steroidogenesis 777 Sterol 228 Storage granules 1073 Stress 1390, 1756, 3049 Striatum 2125 Stroke 161 Structural genomics 3040 Structural malleability 895 Structural study 1653 Structural zinc site 3961 Structure 1669, 2688 Structure-function relationship 3756 Substance P 295 Substrate 1311 Substrate specificity 2138 Sugar phosphate binding 928 Surface 2289 Susceptibility gene 1086 Sushi peptides 1202 SWI/SNF 591 Symbionts 3327 Synapse formation 1698 Synaptic plasticity 1698 Synaptic transmission 2913 Synaptic vesicle 2296 Synaptotagmin 2296, 2814 Synaptotagmin-like protein 2801 Syncoilin 2957 Synergism 4028 Synphilin 80 Synthetic analogues 2450 Synthetic antimicrobial peptides Synthetic peptides 4019 Systems biology 798

Specificity 3525

T **TACE 2232** Tachykinin receptor 295 Targeted therapy 3145 Tautomerase superfamily 3606 Telomere 3553 Telomere epigenetics 3553 Telomere structure 3553 Telomeric chromatin 3553 Temperature 1626 Tensegrity 3592 Terminal differentiation 8 Terminal squamous differentiation 3653 Termination factor 1335 Tetanus 2296 Tether 2814 Tetrameric ADH 3907 TGF-B 24, 2244, 3851 TGF-β1 3304 TGF-β-receptor family 3481 T helper type 17 cells 4055 Therapeutical peptides 455 Therapeutics 1796, 4000 Therapy 605, 1133, 1621 Thermoanaerobacter brockii alcohol dehydrogenase 827 Thioether-containing peptides 455 Three-fingered protein 3481 Three-finger protein 3481 Thrombin 1220, 1943, 3688 Thrombospondin 672, 700 Thyreotroph 1826 Thyroid 570 Thyroid-stimulating hormone receptor 4028 Tinnitus 2407 Tissue construct 177 Tissue damage 2528 Tissue engineering 24, 177 Tissue factor 953 Tissue inhibitors of matrix metalloproteinases 1489 Tissue perfusion 728 Titin 2953 TLR9 2091 T lymphocyte 1161 TNF-α 620 Toll-like receptor 4 2964, 3231 Toxin 2431, 4039 Toxin secretion 1347 Toxoplasma gondii 1900 Traditional medicine 2979 **Trafficking 2215, 3677**

TRAIL 814

TRAIL death receptors 1425 Transcription 212, 656 Transcriptional activity 2752 Transcription factor 141, 3000 Transdifferentiation 1, 33 Transforming growth factor-β 700 Transforming growth factor-β1 477, Transforming growth factor-β-activated kinase 1 3737 Transgenic mice 1836, 3830 Translation 128, 798, 3168 Translation initiation 3110 Translation regulation 516 7-Transmembrane receptors 1793 Transport 1756 Transporter 3049 Transport vesicle 2779 Transposable elements 201 Tribble 3 2924 Trichostatin A 3100 tRNA maturation 1176 Trophoblast 92 Tropomodulin 563 Tropomyosin 563 TRPC channel 205 **TSHR 3664** TSP-5 687 Tubular epithelial cells 477 Tubule 2842 Tumor dormancy 700 Tumorigenesis 3366 Tumor necrosis factor 1698, 2964 Tumor suppressor 591, 1123, 3756 Tumor suppressors 3981 Type I collagen 3304 U **UBA 2397** UBA domain 2360 Ubc4 3458 Ubc13/Mms2 3458

UBA 2397
UBA domain 2360
Ubc4 3458
Ubc13/Mms2 3458
Ubiquitin 2397
Ubiquitin- and ATP-independent protein degradation 3971
Ubiquitination 1123, 1977
Ubiquitin E3 ligase 3126
Ubiquitin ligase 2105
Ubiquitin-like fold 2360
Ubiquitin/proteasome system 2360
Ubiquitylation 80
Ultrastructure 2732
Unfolded protein response 862
uPAR 1916

Urokinase 1916 Urokinase receptor 1916

Vaccine adjuvant 3231 Valosin-containing protein (VCP) Valproic acid 4055 Vascular smooth muscle 728 **VEGF 177 VEGF-C 2740** Venom 4039 Verapamil 1596 Vertebrate 2128 Vertebrate genome 3348 Vertebrate heart development 3312 Vesicle 2814, 2842 Vesicle biogenesis 2781 Vesicle formation 3119 Vesicular stomatitis virus 1716 Vesicular transport 228 Villus 1523 Viral entry 1653, 1716 Viral fusion 100 Viral pathogenesis 3971 Viral persistence 2621 Viral receptor 100 Virulence 528, 3348 Virulence gene regulation 1347 Virus 1161, 3081 Virus attachment 100 Virus entry 100, 756

Voltage-dependent gating 2554 VSV 282

W
Waprin 4039
Warburg phenomenon 3981
Wilson's disease 2080
Withdrawal 1872
Wnt signaling 64, 2658

Virus evolution 3422

Viscoelasticity 3592

Vitamin D 3218

Virus-host coevolution 3422

Virus restriction factors 3383

Wound epidermis 73 Wound healing 1, 73, 713

X Xenobiotic metabolism 3653 Xenopus 54 Xenotransplantation 3399 X-ray 16 X-ray absorption fine structure analysis 4019

X-ray absorption spectroscopy 3040

X-ray crystallography 2039, 2574, 3918, 4019

Xylem differentiation 743

Y Yeast 1933 Yeast Ypt1 2859

Zebrafish 3545 Zinc 3907, 3961, 4019 Zinc finger 1150 Zygotic gene activation 212 Zymogen-like 953

To access this journal online: http://www.birkhauser.ch/CMLS

Author Index

Abdel-Mottaleb, Y. 187 Adamantidis, A. 1475 Aerts, A. M. 1933, 2069 Agrawal, S. 3312 Aguilar-Fuentes, J. 212 Albertini, A. A. V. 282, 1716 Aleu, J. 324 Alexson, S. E. H. 982 Allain, F. H.-T. 516 Aloulou, A. 851 Alp, B. 177 Althaus, F. R. 644 Amadio, M. 128 Amos, L. A. 509 Anders, N. 3433 Ansó, E. 2244 Aquilano, K. 991 Arachiche, A. 3861 Argyropoulos, G. 2721 Arhel, N. 2621 Arima, K. 2541 Arnaud, F. 3422 Aschi, M. 2450 Auld, D. S. 3961, 4019 Authier, F. 1880 Auweter, S. D. 516 Avsnes Dale, H. 2859 Avvakumov, N. 1013 Azar, R. 3110

B

Bacon, A. 1806 Badirou, I. 3861 Bah, A. 1943, 3688 Bahadur, R. P. 1059 Bahar, I. 3058 Bai, Y. 1099 Bando, T. 64 Bański, P. 1756 Banu Ozkan, S. 3058 Baranyi, U. 2105 Barry, D. M. 2215 Bartfai, T. 1796 Bartolomé, F. 3507 Baruzzi, A. 2175 Basson, M. D. 1446 Bastow, E. R. 395 Batchelar, E. T. 2507 Batistoni, R. 16 Bauer, J.W. 1820

Baum, D. A. 2156

Bear, J. E. 2419 Bechinger, B. 3028 Becker, S. 756 Beel, A. J. 1311 Bekaert, T. 2964 Belavew, A. 591 Bella, J. 2307 Bellone, C. 2913 Benach, J. 3918 Benachenhou, F. 3348 Benizri, E. 1133 Berezin, V. 3809 Berger, E. G. 3677 Berggren, P.-O. 1248 Berghella, L. 1780 Bergman, T. 3961, 4019 Bermejo-Pareja, F. 3507 Bernhard, F. 1729 Berra, E. 1133 Bertini, I. 89 Berton, G. 2175 Berx, G. 3756 Bessen, R. 631 Beyaert, R. 2964 Bezerra, I. P. 3093 Bianco, A. C. 570 Binder, B. R. 2105 Binder, U. 445 Bischofberger, M. 493 Blaskó, A. 2586 Blazsó, P. 3830 Blenn, C. 644 Blikstad, V. 3348 Blomberg, J. 3348 Blumenthal, R. 3134 Bock, E. 3809 Boix, E. 324 Bonnefov, A. 713 Bordi, M. 1780 Bozzi, A. 2450 Bradley, L. 2119 Brattsand, M. 2019 Braun, A. P. 2385 Braun, J. E. A. 2385 Breidenbach, M. A. 2296 Brennan, A. 1585 Brenner, C. 3458 Bressanelli, S. 1716 Brooks, III, L. 3458 Brooks, H. 1596 Brown, R. A. 177 Brunger, A. T. 2296

Bruni, P. 3725 Brunk, U. T. 1669 Buchberger, A. 2360 Bukanov, N. 605 Bumbasirevic, V. 814 Bur, D. 1596 Bush, C. F. 2289 Byers, S. 395

Cacchione, S. 3553

C

Cai, S. 3100 Caizergues-Ferrer, M. 2334 Cali, I. 631 Callebaut, I. 2594 Caltabiano, G. 2484 Calvin, K. 1176 Cammue, B. P. A. 1933, 2069 Campbell, L. J. 73 Campillo, M. 2484 Candi, E. 3126 Capella, M. A. M. 3093 Capouillez, A. 591 Carballar-Lejarazú, R. 3081 Carbone, V. 1464 Carlson, C. B. 672 Carlsson, U. 827 Carmona-Gutierrez, D. 1933 Caron, E. 1957 Carrière, F. 851 Carruthers, V. B. 1900 Casella, C. R. 3231 Cashman, N. R. 631 Caveggion, E. 2175 Cecconi, F. 1780 Ceder, R. 3653 Chakraborthy, M. 3312 Chan, H. C. 3822 Chan, Y.-r. 1977 Chance, M. R. 3040 Chang, C.-C. 2740 Chapman, J. A. 2732 Chariot, A. 2964 Chatterjee, A. 3312 Chau, T.-L. 2964 Cheema, U. 177 Chen, C.-N. 2740 Chen, G. 3851 Chen, J. 2431 Chen, T. 2763 Chen, Y. 54 Chen, Z. 1007, 3688

Chen, Z.-N. 2933 Cheng, C.-H. 3545 Cheng, L. 2752 Chien, C.-T. 1977 Cho, J. 1631 Cho, S.-J. 3290 Christianson, D. W. 2039 Chu, C.-Y. 3545 Chuah, M. I. 2732 Chung, R. S. 2732 Ciftci-Yilmaz, S. 1150 Cipollone, R. 3126 Ciriolo, M. R. 991 Clarkin, C. E. 395 Clavien, P.-A. 940 Clemen, C. S. 2419 Clifton, I. J. 2507 Clouaire, T. 1509 Cohausz, O. 644 Conti, B. 1626 Costagliola, S. 2484 Côté, J. 1013 Coudrier, E. 2790 Counts, S. E. 1842 Courtois, G. 1123 Covarelli, V. 1957 Craig, D. H. 1446 Crawley, J. N. 1836 Crescenzi, M. 8 Crews, C. M. 73 Cserpán, I. 3830 Csonka, E. 3830 Cuchillo, C. M. 324 Cuesta, A. 2091

D

Dachary-Prigent, J. 3861
Dainese, E. 840, 2277
Dalla Serra, M. 312
D'Amelio, M. 1780
D'Angelo, G. 2833
Dart, A. E. 1957
Davis, L. A. 2658
De Jersey, J. 4039
de la Cruz Hernández-Hernández, F. 3081
de Lecea, L. 1475

De Lecea, L. 1475 De Leener, A. 2484 De Matteis, M. A. 2833 De Simone, C. 840 De Zio, D. 1780 Debauve, G. 591 DeCoursey, T. E. 2554 Dedov, V. N. 1669 Delgado, M. 2080 Deller, S. 141 Delwig, A. 2232 Deng, J. 2924 Deng, M. 2431 Dentice, M. 570 Deri, P. 16 D'Errico, I. 1523 Desbuquois, B. 1880 Di Campli, A. 2833 Di Cera, E. 1220, 1943, 3688 Di Costanzo, L. 2039 Di Giulio, A. 2450 Dickman, M. B. 1390 Diego-García, E. 187 Ding, J. L. 1202 Ding, L.-H. 2752 Djinović-Carugo, K. 2688 Dolezel, D. 964 Dolnik, O. 756 Donati, C. 3725 Dong, Z. 631 Dotor de las Herrerías, J. 2244 Dötsch, V. 1729

E

Ealick, S. E. 3699
Earl, S. T. 4039
Eberhard, D. 33, 3467
Eiden, M. V. 3327
Eitoku, M. 414
Ekholm, M. E. 1948
Eklund, H. 3907
El Amri, C. 895
El-Kabbani, O. 1464
Elliot-Hunt, C. R. 1806
Engelender, S. 80
Engen, J. R. 3058
Ernst, J. F. 528
Esteban, M. A. 2091
Esteras, N. 3507

Double, K. L. 1669

Dowling, D. P. 2039

Downey, C. 1446

Dubuisson, J. 100

Duester, G. 3936

F

Fairn, G. D. 228 Fajka-Boja, R. 2586 Farrés, J. 3936 Fauser, U. 4055 Fedorow, H. 1669 Ferguson, M. W. J. 24 Ferraro, E. 1780 Ferretti, P. 45 Filippovich, I. 4039 Finazzi-Agrò, A. 840 Fitz, L. J. 1585 Fiume, E. 743 Flavell, R. A. 2128 Fletcher, J. C. 743 Fodor, K. 3830 Fok, K. L. 3822 Foltzer-Jourdainne, C. 1425 Fonseca, P. H. 3093 Fosang, A. J. 395 Franchitto, A. 8 François, I. E. J. A. 1933, 2069 Fratelli, M. 1019 Frazier, W. A. 728 Frêche, B. 493 Frederick, T. J. 2702 Fujita, M. 1272 Fukuda, M. 2801 Fukuda, M. N. 92 Furness, J. B. 295

Galat, A. 3481 Galati, A. 3553 Galgano, A. 798 Galliot, B. 1 Gambetti, P. 631 Gandhi, P. S. 3688 Gao, W. 1435 Garattini, E. 1019 Garcia, M. L. 2215 Garcia-Segura, L. M. 7 Garcin, I. 3861

Garcia-Segura, L. M. 777
Garcin, I. 3861
Garg, H. 3134
Garner, B. 1669
Garrido, F. 2080
Gasparre, G. 2943
Gaudin, Y. 1716
Geldwerth-Feniger, D. 3861
Gennadios, H. A. 2039
Gerber, A. P. 798
Gerdes, H.-H. 2779
Gereben, B. 570
Gérus, M. 2334
Ghafourifar, P. 1272

Ghaskadbi, S. 3312 Ghelli, A. 2943 Ginouvès, A. 1133 Girault, J.-A. 2125 Giuliani, A. 2450 Goldman, S. J. 1585 Golub, S. B. 395 Gonfloni, S. 3126 Gonzalez, M. R. 493 Gonzenbach, R. R. 161 Goodyear, L. J. 3737 Gossé, F. 1425 Govaert, G. 1933 Graf. R. 940 Grafström, R. C. 3653 Granucci, F. 1683 Graves, J. A. M. 3182 Gremigni, V. 16 Gropuzzo, A. 312 Grounds, M. D. 1621 Groves, E. 1957 Guan, X. 3822 Guan, Y. 1007 Guo, J.-P. 631 Gupta, R. S. 2875 Guth, S. I. E. 3000 Gutiérrez, J. M. 2897

н Habold, C. 1425 Hadlaczky, G. 3830 Hagey, L. R. 2461 Halbeisen, R. E. 798 Hale, D. 2732 Hall, R. A. 2289 Halliday, G. M. 1669 Hamed, R. B. 2507 Hammarström, P. 827 Han. G. 3851 Hansen, S. M. 3809 Hara, A. 1464 Hardeland, R. 2001 Harris, J. A. 2732 Hartmann, R. 2613 Hashimoto, M. 1272 Hatcher, H. 1631 Hayashida, T. 3304 He, O. 2431 Hebert, M. D. 1256 Hecht, J. T. 687 Hedlund, J. 3879 Heide, L. 1459 Heimsath, Jr., E. G. 3458 Heldwein, E. E. 1653 Helle, F. 100 Hellgren, M. 3950 Henras, A. K. 2334 Henry, Y. 2334 Hernández-Rivas, R. 3081 Hindle, K. L. 2307 Hinman, M. N. 3168 Ho, B. 1202 Ho, M. S. 1977

Ho, P.-Y. 3839

Ho-Wo-Cheong, D. 1756 Hobson, S.-A. 1806 Hochrainer, K. 2105 Hochrein, J. M. 3058 Hodkova, M. 964 Hofmann, A. F. 2461 Hökfelt, T. 1793, 1813, 1854 Holló, G. 3830 Holmes, F. E. 1806 Holmgren, J. 1347 Höög, J.-O. 3653, 3950 Hooper, L. V. 3019 Hogue, M. 2943 Horikoshi, M. 414 Houtkooper, R. H. 2493 Hoylaerts, M. F. 713 Hsu, S.-P. 3839 Huang, C.-J. 3545 Huang, J. 338 Huang, M.-T. 2740 Huh, J.-E. 3290 Hulse, R. E. 2574 Hunt, M. C. 982 Huuskonen, J. 1049, 2979

Ibraghimov-Beskrovnaya, O. 605 Ichihara, S. 1086 Ilnytska, O. 2721 Inoue, K. 3074 Iommarini, L. 2943 Irigoyen, M. 2244 Isenberg, J. S. 728 Izuhara, K. 2541

Jacobs, G. 1361 Jaeger, T. 928 Jaeschke, H. 3664, 4028 Jakab, M. 1820 Jana, N. R. 656, 1295 Jiang, H. 1435, 2924 Jiang, J.-L. 2933 Jiang, L. 2431 Jiang, Q. 3100 Jiménez, M. 324 Jin, R. 2296 Johansson, L. 1948 Johnson, B. 2407 Johnson, L. N. 2271 Jones, R. O. 2407 Jörnvall, H. 3875, 3879, 3895, 4019 Joubert, O. 312 Juan, S.-H. 3839 Jun, J. H. 743

Junge, F. 1729 Junger, W. G. 2528 Jürgens, G. 3433 Jurka, J. 201

Kaarniranta, K. 1049, 2979 Kabbage, M. 1390 Kaiser, M. 1186 Kanaji, S. 2541 Karlsson, M. 827 Kasaian, M. T. 1585 Katona, R. L. 3830 Kauppinen, A. 1049 Kavanagh, K. L. 3895 Kawamoto, H. 354 Kawano, N. 3446 Kazantsev, A. G. 4000 Kazerounian, S. 700 Kedishvili, N. 3936 Keller, D. 312 Kerbiriou-Nabias, D. 3861 Kereső, J. 3830 Kerr, N. C. H. 1806 Kettle, E. 1669 Khusainov, R. 455 Kidd, M. 264 Kim, S. V. 2128 Kirchhoff, F. 2621 Kleinau, G. 3664, 4028 Kneale, G. 631 Knight, R. 3126 Ko, W. C. 3640 Kodiha, M. 1756 Kofler, B. 1820 Koide, S. S. 3822 Kolesnikova, L. 756 Kolset, S. O. 1073 Kong, L. 3494 Kostyukova, A. S. 563 Kovács-Sólyom, F. 2586 Kozak, C. A. 3383 Krähenbühl, S. 1596 Krause, G. 3664, 4028 Kreye, S. 2814 Krishna, M. 3525 Kroismayr, R. 2105 Krummenacher, C. 1653 Kuipers, O. P. 455 Kukkonen, J. P. 1948 Kumar, K. 1186 Kuteeva, E. 1854 Kuzuyama, T. 1459

L Ladenstein, R. 3918 Lage, H. 3145 Lahlou, H. 3110 Laliberté, J. 1900 Landmann, L. 1596 Lang, R. 1820 Lanz-Mendoza, H. 3081 Lavin, M. F. 4039 Lawler, J. 672, 700 Le Novère, N. 2125 Lebaron, S. 2334 Lee, H. 2740 Lee, M.-H. 3981 Lee, S. 1161 Lee, S.-J. 2740 Lee, W.-S. 3839 Legat, A. 620 Lehn, P. 2594 Lehtonen, M. 2979 Leiter, É. 445 Lengeler, K. B. 528 Lenka, N. 3312 Lepault, J. 1716 Lerner, J. T. 1864 Lesurtel, M. 940 Leung, J. Y. K. 2732 Levin, M. C. 1161 Lewis, Z. 3241 Li, F. 1007 Li, H. 1176 Li, L. 2125 Li, P. 1202 Li, S. 3822 Li, W. 2397 Li, X. 3851, 3971 Li, Y. 3851 Liang, S. 2431 Liang, Y.-C. 3839 Liao, Z. 2431 Lin, C.-H. 2740 Lin, C.-I. 2740 Lin, C.-S. 1489 Lin, G. 54 Lin, H. 2924 Lipp, J. 2105 Liu, C. J. 3494 Liu, J. 3971 Liu, W. 338 Liu, Y.-P. 2407 Llorca, O. 1302 Lobstein, A. 1425 Lomonte, B. 2897

Lonez, C. 620

Lopes, A. G. 3093

López-Marqués, R. L. 3119 López-Novoa, J. M. 477 Loring, G. L. 3458 Lou, H. 3168 Loubéry, S. 2790 Loukeris, T. 3081 Lovell, S. C. 2307 Lu, H. 2924 Lu, Q. 3100 Lu, X. 1796, 3100 Lu. Y. 338 Lubelski, J. 455 Lundquist, I. 2256 Lundwall, Å. 2019 Luo, H. 3971 Luo, W. 237 Lüscher, B. 3255 Lüscher, C. 2913 Luthi-Carter, R. 4000 Lycett, G. 3081

M

Ma. D. 338

Ma, J. F. 3049 Ma, T. 338 Ma, X. 338 Ma, Y. 3100 Maccarrone, M. 840, 2277 Macheroux, P. 141 MacRobert, A. J. 177 Madeo, F. 1933 Mager, D. L. 3329 Makarev, E. 41 Maksakova, I. A. 3329 Malanga, M. 644 Maldonado-Celis, M. E. 1425 Malito, E. 2574 Malsam, J. 2814 Mameli, M. 2913 Mandel, C. R. 1099 Mandrup-Poulsen, T. 1248 Mao, C. 1933 Mao, I. 3971 Mariani, E. 2943 Marie, M. 2859 Martín-Requero, Á. 3507 Martínez-Irujo, J. J. 2244 Martínez-Salgado, C. 477 Marx, F. 445 Masci, P. P. 4039 Matsuyama, H. 295 Maxwell, M. M. 4000 May, M. J. 3564 Mayer, C. 928 Mayer, J. 3366

Mazarati, A. M. 1864 Mazzola, A. 8 McEwan, P. A. 2307 McGeehan, J. 631 McGeer, P. L. 631 McMaster, C. R. 228 Mechenthaler, I. 1826 Meers, J. 3413 Meidute Abaraviciene, S. 2256 Melcangi, R. C. 777 Melino, G. 3126 Meng, E. 2431 Mensah-Nyagan, A. G. 777 Mercer, A. R. 3521 Meseguer, J. 2091 Metcalfe, A. D. 24 Meyer, B. I. 1780 Meyn, III, M. A. 3058 Miao, S. 3822 Miller, S. D. 2702 Mishra, A. 656 Mishra, R. 827 Mitchell, T. C. 3231 Mito, T. 64 Mitsukawa, K. 1796 Mittler, R. 1150 Miyoshi, M. 92 Moasser, M. M. 1566 Modlin, I. M. 264 Moll, G. N. 455 Monostori, É. 2586 Montecucco, C. 2897 Moorwood, C. 2957 Morar, M. 3699 Mornon, J.-P. 2594 Moschetta, A. 1523 Mosher, D. F. 672 Mougin, A. 2334 Moura, R. 713 Mueller-Lantzsch, N. 3366 Mueller, S. 3664, 4028 Mufson, E. J. 1842 Mukherjee, S. 3019 Münch, J. 2621 Muñoz, Ú. 3507 Munson, K. 264

Nabeshima, Y. 3218 Nadano, D. 92 Nair, A. 2702 Najib, S. 3110 Nakamura, T. 64 Narang, H. 3525 Naryzhny, S. N. 3789 Nasser, N. J. 1706 Navarro, S. 324 Nicholls, I. A. 827 Nicolas, P. 895 Nielsen, P. H. 910 Nitta, K. 3304 Niu, C. 2752 Noble, C. G. 1335 Noegel, A. A. 2419 Noel, J. P. 1459 Nogués, M. V. 324 Noji, S. 64 Nudler, E. 855

Oddi, S. 840, 2277 Ögren, S. O. 1854 Ohta, S. 2541 Ohuchi, H. 64 Ojala, J. 1049 Okano, K. 3304 Olofsson, L. 827 Olsen, O. H. 953 O'Neill, C. 3265 Oppermann, U. 3895 Orange, J. S. 3564 Ostrowska, E. 970 Otzen, D. 910 Ou, C. 1977

Page, M. J. 1220 Pajalunga, D. 8 Pajares, M. A. 2080 Palmarini, M. 3422 Palmberg, C. 4019 Palmgren, M. G. 3119 Pan, C.-H. 1489 Pan, J. 3981 Panchin, Y. 376 Pani, B. 205 Papaconstantinou, M. E. 1943, 3688 Parab, P. B. 3312 Pardo, L. 2484 Parés, X. 3936 Parihar, A. 1272 Parihar, M. S. 1272 Park, J. 2875 Pascale, A. 128 Paschke, R. 3664, 4028 Pasquariello, N. 840 Patwardhan, V. 3312 Peçanha, F. L. 3093 Pedarzani, P. 3196

Peng, K. 1435 Pérez-Miguelsanz, J. 2080 Perez, S. E. 1842 Pérez-Sala, D. 2080 Pernot, L. 493 Persson, B. 3879, 3895 Persson, E. 953 Petersen, R. B. 631 Pi, H. 1977 Picciotto, M. R. 1872 Pinotsis, N. 2953 Pirri, G. 2450 Pisano, S. 3553 Pitsillides, A. A. 395 Planalp, R. 1631 Pócsi, I. 445 Poelarends, G. J. 3606 Poeschla, E. M. 1403 Pope, R. 1806 Porcelli, A. M. 2943 Posey, K. L. 687 Possani, L. D. 187, 3081 Poulsen, L. R. 3119 Pratt, R. F. 2138 Praznovszky, T. 3830 Prévost, G. 312 Price, T.A.R. 3241 Puggioni, E. 8 Puthan Veetil, V. 3606 Pyo, S. 3290 Pyronnet, S. 3110

Qin, X. 2752 Oiu, X. 338 Quattrone, A. 128

R

Rakugi, H. 354 Ramaswamy, S. 3907 Ramos-Castañeda, J. 3081 Rand, M. D. 2232 Rapino, C. 840 Rastetter, R. H. 2419 Raul, F. 1425 Reckel, S. 1729 Reiser, G. 237, 970, 2266 Reiss, D. 3329 Reynaud, E. 212 Reynaud-Garza, E. 3081 Rhee, D.-K. 3290 Ricciardi-Castagnoli, P. 1683 Richard, S. B. 1459 Rikitake, Y. 253 Rinaldi, A. C. 2450

Rink, R. 455 Rivetti di Val Cervo, P. 3126 Roberg, K. 3653 Roberts, D. D. 669, 728 Roche, S. 1716 Rodríguez de la Vega, R. C. 187 Rodríguez, M. H. 3081 Rodríguez-Peña, A. B. 477 Rodríguez-Tarduchy, G. 2080 Roemer, K. 3366 Roessner, A. 1425 Rohrer, J. 3677 Rong, M. 2431 Rosato, A. 89 Rosenstiel, P. 1361 Rossi, L. 16 Rotilio, G. 991 Rott, R. 80 Roussi, S. 1425 Rouzaut, A. 2244 Rugolo, M. 2943 Ruigrok, R. W. H. 282 Ruprecht, K. 3366 Ruysschaert, J.-M. 620 Rybakin, V. 2419

Sachs, G. 264 Saksouk, N. 1013 Sale, E. M. 113 Sale, G. J. 113 Salehi, A. 2256 Salmazo, A. 2688 Salminen, A. 1049, 2979 Salvatore, D. 570 Salvetti, A. 16 Salvo, E. 2244 Sampaio, M. S. 3093 Sánchez, J. 1347 Sanders, C. R. 1311 Sankar, R. 1864 Sannerud, R. 2859 Saraste, J. 2859 Sato, L. 414 Sauman, I. 964 Saussez, S. 591 Sauter, M. 3366 Schaub, B. E. 3677 Scherrer, T. 798 Schindler, M. 2621 Schluesener, H. J. 1237, 4055 Schmid, V. H. R. 3619 Schneemann, A. 2675 Schneider, B. 1729 Schneider-Stock, R. 1425

Schoehn, G. 282 Schofield, C. J. 2507 Schönfeld, P. 2266 Schreiber, S. 1361 Schröder, M. 862 Schuberth, C. 2360 Schulz, D. J. 2215 Schwab, M. E. 161 Schwartz, E. F. 187 Schwarz, D. 1729 Seaman, M. N. J. 2842 Senda, T. 414 Severinov, K. 2280 Shamovsky, I. 855 Shang, Y. 2924 Sharan, S. K. 687 Sharoff, C. G. 3737 Shen, B. 3851 Shestopalov, V. I. 376 Shetty, A. K. 2372 Shi, T. 338 Shi, W. 3040 Shi, Y.-F. 1435 Shih, C. M. 3640 Shih, Y. L. 3640 Shiina, T. 295 Shimazaki, K. 359 Shimizu, Y. 295 Shin, J. M. 264 Shin, R.-W. 359 Shiraishi, H. 2541 Silverman, S. K. 2156 Simon, A. 1 Simoni, V. 1780 Singh, B. B. 205 Sinkó, I. 3830 Sjöblom, B. 2688 Slack, J. M. W. 54, 3467 Smets, B. 1933 Smithgall, T. E. 3058 Smits, G. 2484 Smrcka, A. V. 2191 Sojat, J. 2613 Soll, C. 940 Sollner, S. 141 Söllner, T. H. 2814 Solum, N. O. 2445 Song, H. 1335 Song, J. 3290 Song, Q. 338 Sontheimer, J. 4028 Sorokina, N. 4039 Soroldoni, D. 1780 Soudet, J. 2334

Spang, A. 2781

Specht, A. 2621 Spencer, T. E. 3422 Sperber, G. O. 3348 St Pierre, L. 4039 Staab, C. A. 3653, 3950 Stamenović, D. 3592 Stancheva, I. 1509 Stehli, J. 1609 Stieger, B. 1596 Stochaj, U. 1756 Stocker, M. 3196 Stocking, C. 3383 Stockley, J. H. 3265 Størling, J. 1248 Stumpf, M. 2419 Sun, H.-W. 2752 Surewicz, W. K. 631 Susini, C. 3110 Suuronen, T. 1049, 2979 Suzuki, Y. 351 Swulius, M. T. 2637 Szakál, B. 3830 Szargel, R. 80 Szebeni, G. J. 2586 Székely Szűcs, K. 3830

T Takahashi, K. 359 Takai, Y. 253 Takemura, Y. 354 Takewaki, T. 295 Tanaka, E. 1 Tang, C.-H. 1916 Tang, J. 2933 Tang, M. 2924 Tang, W.-J. 2574 Tarlinton, R. 3413 Tatemoto, K. 1793 Tavernier, J. 2964 Taylor, D. M. 4000 Tello, M. 1459 Temporal, S. 2215 Terao, M. 1019 Thevissen, K. 1933, 2069 Tielker, D. 528 Till, A. 1361 Todesco, L. 1596 Tong, L. 1099 Török, M. 1596 Torossi, T. 1609 Torralba, S. 2613 Torti, F. M. 1631 Torti, S. V. 1631 Tosh, D. 33, 3467

Tóth, G. K. 2586

Trybus, K. M. 1378 Tsonis, P. A. 41 Tveit, H. 1073 Tytgat, J. 187

U Uchida, C. 359 Uchida, K. 3304 Uchida, T. 359 Udvardy, A. 3830 Uetrecht, A. C. 2419

Vagin, O. 264 Vaishnava, S. 3019 van der Goot, F. G. 493 van Roy, F. 3756 Vandenbranden, M. 620 Vanderplank, P. 1806 Varela, M. 3422 Vassart, G. 2484 Vaz, F. M. 2493 Veerisetty, A. C. 687 Venter, P. A. 2675 Verma, M. K. 3312 Verstrepen, L. 2964 Vervoorts, J. 3255 Vicinanza, M. 2833 Viero, G. 312 Vigilanza, P. 991 Vilimanovich, U. 814

W Waldau, B. 2372 Waldmann, H. 1186 Wales, T. E. 3058 Wallis, M. C. 3182 Walsh, F. S. 2119 Wang, J. 631, 3851 Wang, L. 3822, 3851 Wang, R. 3851 Wang, S. H. 3640 Wang, X.-H. 2752 Wang, Y. 237, 3822 Wardi, T. 1854 Waters, P. D. 3182 Waxham, M. N. 2637 Wedell, N. 3241 Wegner, M. 3000 Wei, Y. 1916 Wei, Y. H. 3640 Weissenhorn, W. 282 West, A. K. 2732 Westin, M. A. K. 982 Wetzel, S. 1186

Whalley, K. 45 Whitman, C. P. 3606 Whittom, A. A. 1256 Wieduwilt, M. J. 1566 Wiesenfeld-Hallin, Z. 1813 Williams, A. E. 545 Wilmanns, M. 2953 Wilson, C. A. 3399 Winberg, J.-O. 3918 Winderickx, J. 1933 Witczak, C. A. 3737 Wong, Y. S. 2763 Wood, C. R. 1585 Worth, C. L. 3664 Wu, J. 1435 Wu, Y.-M. 2933 Wynick, D. 1806

X

Xiang, A. C. 1768 Xiao, X. 631 Xie, J. 1768 Xu, H. 1256 Xu, R. 3851 Xu, X.-J. 1813, 2752

Y Yamada, Y. 1086 Yamaji, N. 3049

Yang, C.-H. 3545 Yang, X.-M. 2933 Yang, Y. 687 Yang, Z.-H. 2752 Yasuda, O. 354 Yaworsky, P. J. 2119 Ye, Q.-N. 2752 Ye, Y. 2397 Yee, K. O. 700 Yeung, S. J. 3981 Yoshida, K. 3446 Yoshida, M. 3446 Young, P. 3413 Yu, N. 2407 Yuan, J. 631 Yuzaki, M. 1698

Z Zabrocki, P. 1933 Zacharias, M. 1059 Zaitsev, S. V. 1248 Zaitseva, I. I. 1248 Zanna, C. 2943 Zanoni, I. 1683 Zdechovanova, L. 964 Zenkin, N. 2280 Zeöld, A. 570 Zhang, C. 3100 Zhang, H. 2752

Zhang, J.-Y. 1435 Zhang, K. 4019 Zhang, W. 2924 Zhang, X. 3822 Zhang, X.-J. 1435 Zhang, X. J. 1768 Zhang, Y. 338, 2924, 3699 Zhang, Z. 1237, 4055 Zhang, Z.-Y. 1237 Zhang, Z. Y. 4055 Zhao, H.-B. 2407 Zhao, P. 2933 Zhao, X. 2385 Zharkov, D. O. 1544 Zhong, M. 2924 Zhou, J. 3100 Zhu, M.-L. 2407 Zhu, S. 1285 Ziak, M. 1609 Zolkiewska, A. 2056 Zong, S. 3822 Zou, W. Q. 631 zur Nieden, N. I. 2658 Zurita, M. 212 Zurita-Ortega, M. 3081

To access this journal online: http://www.birkhauser.ch/CMLS

